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## Patent Abstracts of Japan

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TITLE : PRODUCTION OF MATERIAL FOR IMMUNITY MEASUREMENT

ABSTRACT : PURPOSE: To stabilize a carrier in which glutamic acid decarboxylase is fixed for a long duration and provide excellent reproducibility by freeze-drying the carrier in the presence of a solution of a glutamic acid decarboxylase stabilizing agent.

CONSTITUTION: Glutamic acid decarboxylase(GAD) may be one which reacts with GAD existing in the blood of a human being and derived from pancreas cells by antigen-antibody reaction and the GAD derived from a mammal is used. An enzyme immunoassay and a particle coagulation reaction can be applied to fix GAD in a carrier. A carrier in which GAD is fixed is, for example, treated for blocking by albumin, serum of a cow, etc. Monosaccharide, e.g. sorbitol, etc., disaccharide, e.g. trehalose, etc., are used for a glutamic acid decarboxylase stabilizing agent. The stabilizing agent is added to the carrier in which GAD is fixed in an aqueous solution condition. Then the GAD carrier is freeze-dried together with the stabilizing agent solution.

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